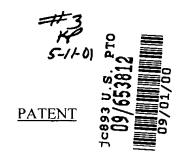
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re:

Patent Application of

Haig H. Kazazian, Jr. et al.

Appln. No.:

Not Yet Assigned

Filed:

September 1, 2000

For:

Compositions and Methods of Use of

Mammalian Retrotransposons

: Attorney Docket

: No. 9596-23U3

INFORMATION DISCLOSURE STATEMENT

It is requested that the enclosed reference(s) listed on the attached Information Disclosure Citation Form PTO-1449 be considered by the Patent Examiner in connection with the above-identified application and be made of record therein.

Independent consideration and acknowledgment of the enclosed reference(s) are respectfully requested.

Respectfully submitted,

Haig H. Kazazian, Jr. et al.

(Data)

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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE ATTORNEY DOCKET NO.: 9596-2303

APPLICATION NO.

Not Yet Assigned

APPLICANT:

Kazazian, Jr., et al.

INFORMATION DISCLOSURE CITATION (Form PTO-1449 Modified 5/95) FILING DATE: **GROUP ART UNIT:** Herewith (Use several sheets if necessary) OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) Adams et al., 1980, Nucl. Acids Res. 8:6113-6128 Altschul et al., 1990, J. Mol. Biol. 215:403-410 Barzilay et al., 1995, Nucl. Acids. Res. 23:1544-1550 Barzilay et al., 1995, Nature Structural Biol. 2:561-568 Boeke et al., 1985, Cell 40:491-500 Boeke et al., 1991, Curr. Opin. Cell. Biol. 3:502-507 Braiterman, et al., 1994, Gene 139:19-26 Bucheton et al., 1984, Cell 38:153-163 Burkhoff et al., 1987, Cell 48:935-943 Burton et al., 1986, J. Mol. Biol. 187:291-304 Chee, 1996, Science 274:610-614 Conway et al., 1985, Proc. Natl. Acad. Sci. USA 82:3949-3953 Cooley et al., 1988, Science, 239:1121-1128 Curcio et al., 1991, Proc. Natl. Acad. Sci. USA 88:936-940 Demers et al., 1986, Mol. Biol. Eval. 3:179-190 Derr et al., 1991, Cell 67:355-364 Dombroski et al., 1993, Proc. Natl. Acad. Sci. USA. 90:6513-6517 Dombroski et al., 1991, Science 254:1805-1808 Dombroski et al., 1994, Mol. Cell. Biol. 14:4485-4492 Drolet et al., 1994, J. Biol. Chem. 269:2068-2074 Fanning et al., 1987, Biochim. Biophys. Acta 910:203-212

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

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INFORMATION DISCLOSURE CITATION

(Form PTO-1449 Modified 5/95)
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APPLICANT: Kazazian, Jr., et al.

FILING DATE: Herewith

GROUP ART UNIT:

	OTHER DOCUMENTS (I aliabate Authority)		
	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
	Fanning et al., 1987, Nucl. Acids Res. 15:2251-2260		
	Freeman et al., 1994, BioTechniques 17:47-52		
	Garfinkel et al., 1985, Cell 42: 507-517		
	Goff et al., 1981, J. Virol. 38:239-248		
	Heidmann et al., 1988, Proc. Natl. Acad. Sci. USA 85:2219-2223 Hohjoh et al., 1996, EMBO J. 15:630-639		
	Hohjoh et al., 1990, Nucl. Acids Res. 18:4099-4104		
	Holmes et al., 1992, J. Biol. Chem. 267:19765-19768		
	Holmes et al., 1994, "A new retrotrnasposable human L1 element from the LRE2 locus on chromosome 1q produces a chimaeric insertion", Nature Genetics 7:143-148		
	Holmes, 1994, Thesis Dissertation, Johns Hopkins University Press		
	Hutchison et al., 1989, LINES and related retrotransposons: long interspersed sequences in the eukaryotic genome in Mobile DNA eds., Berg et al., pp.593-617, ASM Press, Washington, DC		
	Jensen et al., 1991, EMBO J. 10:1927-1937		
	Johnson et al. 1988, J. Biol. Chem. 263:18017-18022		
	Kazazian et al., 1988, Nature 332:164-166		
	Kinsey, 1990, Genetics 126:317-326.		
	Kitchin et al., 1986, J. Biol. Chem. 261:11302-11309		
	Kolosha et al., 1995, "Polymorphic Sequences Encoding the First Open Reading Frame Protein from LINE-1 Ribonucleoprotein Particles", <i>The Journal of Biological Chemistry</i> 270:2868-2873		
	Kunkel, et al., 1991, Methods in Enzymology 204:125-139		
	Lehman, 1974, Science 186:790-797		
	Liebold et al., 1990, Proc. Natl. Acad. Sci. USA 87:6990-6994		
EXAMINER	DATE CONSIDERED		

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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APPLICANT: Kazazian, Jr., et al.

FILING DATE: Herewith

GROUP ART UNIT:

	OTHER DOCUMENTS (Including Author,	itle, Date, Pertinent Pages, Etc.)	
	Lilley, 1981, Nucl. Acids Res. 9:1271-1288		
	Liu et al., 1987, Proc. Natl. Acad. Sci. USA 84:7024-	7027	
	Luan et al., 1995, Mol. Cell. Biol. 15:3882-3891		
	Luan et al., 1993, Cell 72:595-605		
	Maestre et al., 1995, EMBO J. 14:6333-6338		
	Maniatis et al., 1982, Molecular cloning: A Laborate voluminious to submit	ry Manual, Cold Spring Harbor, New York, pp. 1-545 - to	
	Martin, 1991, Mol. Cell Biol.11:4804-4807		
	Martin et al., 1995, J. Mol. Biol. 247:49-59		
	Martin, 1995, "Characterization of a LINE-1 cDNA to particles: implications for the structure of an active n		
	Martin, 1991, Curr. Opin. Genet. Dev. 1:505-508		
	Mathias et al., 1991, Science 254:1808-1810		
	Miki et al., 1992, Cancer Research 52:643-645		
	Minakarni et al., 1992, Nucl. Acids Res. 12:3139-314	5	
	Mol et al., 1995, Nature 374:381-386		
	Moran et al., 1996, Cell 87:917-927		
	Morse et al., 1988, Nature 333:87-90		
	Narita et al., 1993, J. Clinical Invest. 91:1862-1867		
	Oefner et al., 1986, J. Mol. Biol. 192:605-632		
	Pettijohn et al., 1980, Proc. Natl. Acad. Sci. USA 77:	331-1335	
EXAMINER	DA	TE CONSIDERED	

citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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ATTORNEY DOCKET NO.: 9596-23U3

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FILING DATE: Herewith

GROUP ART UNIT:

		OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	 	
		Palmiter et al., 1986, Ann. Rev. Genet. 20:465-499		
d ·		Qiagen, Cat. No. 30210, Chatsworth, CA		
		Rose et al., 1990, Methods in Yeast Genetics: A Laboratory Course Manual, Cold Spring Harbor, NY - voluminous to submit	- too	
		Sambrook et al., 1989, Molecular Cloning: A Laboratory Manual, Cold Spring Harbor, New York - to voluminous to submit	00	
Scott et al., 1987, Genomics 1:113-12 Sinden et al., 1980, Cell 21:773-783		Sassaman, 1996, Characterization of five novel human L1 elements capable of retrotransposition, Doct Dissertation, Johns Hopkins University, Baltimore, MD	toral	
		Scott et al., 1987, Genomics 1:113-125		
		Sinden et al., 1981, <i>Proc. Natl. Acad. Sci. USA</i> 78:224-228		
		Sinden et al., 1980, <i>Cell</i> 21:773-783		
		Skowronski et al., 1988, <i>Mol. Cell. Biol.</i> 8:1385-1397		
		Smit et al., 1996, Current Opinion in Genetics and Development - too voluminous to submit		
		Suck et al., 1988, <i>Nature</i> 332:464-468		
		Swergold, 1990, Mol. Cell. Biol. 10:6718-6729		
		Tchenio et al., 1993, EMBO J. 12:1487-1497		
		Temin et al., 1985, Mol. Biol. Evol. 2:455-468		
		Teng et al., 1996, Nature 383:641-644		
		Trelogan et al., 1995, "Tightly regulated, developmentally specific expression of the first open reading frame from LINE-1 during mouse embryogenesis", <i>Proc. Natl. Acad. Sci. USA</i> 92:1520-1524		
		Tsao et al., 1989, Cell 56:111-118		
		Usdin et al., 1989, J. Biol. Chem. 264:15681-15687		
		Ward et al., 1990, Nucl. Acids Res. 18:5319		
		Weiner et al., 1986, Ann. Rev. Biochem. 55:631-661		
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^{**}Will be mae available to the Examiner as soon as it becomes available.

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)									
	Weiss, 1976, J. Biol. chem. 251:1896-1901								
	Wilson, 1996, Molecular Medicine 334:1185-1187								
	Woods-Samuels et al., 1989, Genomics 4:290-296								
	Yates et al., 1985, Nature 313:812-815	Yates et al., 1985, Nature 313:812-815							
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